BRUHATH BANGALORE MAHANAGARA PALIKE

Name of Work: Construction drain and Concrete roads of Vidyanagara Cross roads in Ward No.39 Chokkasandra

DETAILED ESTIMATE

Ward No. 39					Est. Cost	5000000.00	
Sl. No.	Description	Dimensions				Qty.	Rate	Amount
		No.	L.	B.	D			
1	2	3	4	5	6	7	8	9
1	KSRRB M200-13.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications II. By Mechanical Means. A. Cement Concrete Grade M-15 &M-20 Page No.137 Item No.18.20 of KPWD S.R2016-2017							
	5 th A main	1	75.00	4.50	0.25	84.38		
		1	50.00	4.00	0.25	50.00		
	Cross Road	1	40.00	5.60	0.25	56.00		
	5 th Cross	1	20.00	5.40	0.25	27.00		
		1	12.00	4.50	0.25	13.50		
	3rd A Cross	1	20.00	4.50	0.25	22.50		
	1 st Cross	1	57.00	4.70	0.25	66.98		
	2 nd Cross	1	36.00	4.50	0.25	40.50		
	4 th Cross	1	100.00	4.50	0.25	112.50		
	5 th Cross	1	76.00	5.00	0.25	95.00		
		1	21.00	5.00	0.25	26.25		
	6 th Cross	1	37.00	4.00	0.25	37.00		
	7 th Cross	1	38.00	4.00	0.25	38.00		
						669.60	365.70	244873.00
							Per Sqm	
	CSR of 2016-17							
	Basic Rate	345.00						
	Add A.W. 6%	20.70						
	TOTAL	365.70						
2	KSRB 300-1 : Earthwork excavation by manual means in ordinary soil involving an average harizintal throw upto 2 meters and an average horizontal lift upto 0.5m, excavated surface leveled and sides neately dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No 142., I.No.19.1 of KPWD S.R 2016-17)							
	5 th A main	1	75.00	4.50	0.20	67.50		
		1	50.00	4.00	0.20	40.00		
	Cross Road	1	40.00	5.60	0.20	44.80		
	5 th Cross	1	20.00	5.40	0.20	21.60		
		1	12.00	4.50	0.20	10.80		

	3rd A Cross	1	20.00	4.50	0.20	18.00		
	1 st Cross	1	57.00	4.70	0.20	53.58		
	2 nd Cross	1	36.00	4.50	0.20	32.40		
	4 th Cross	1	100.00	4.50	0.20	90.00		
	5 th Cross	1	76.00	5.00	0.20	76.00		
		1	21.00	5.00	0.20	21.00		
	6 th Cross	1	37.00	4.00	0.20	29.60		
	7 th Cross	1	38.00	4.00	0.20	30.40		
	Desliting of Side Drains							
	5 th A main	2	75.00	0.45	0.45	30.38		
		2	50.00	4.00	0.20	80.00		
	Cross Road	2	40.00	5.60	0.20	89.60		
	5 th Cross	2	20.00	5.40	0.20	43.20		
		2	12.00	4.50	0.20	21.60		
	3rd A Cross	2	20.00	4.50	0.20	36.00		
	1 st Cross	2	57.00	4.70	0.20	107.16		
	2 nd Cross	2	36.00	4.50	0.20	64.80		
	4 th Cross	2	100.00	4.50	0.20	180.00		
						1188.42		
						1188.42	**86.92**	**103297.00**
							Per Cum	
	CSR of 2016-17							
	Basic Rate		**82.00**					
	Add A.W. 6%		**4.92**					
	TOTAL		**86.92**					
3	KSRB4-1.2 Providing and Laying in Position plain cement concerete of mix 1:3:6 with OPC Cement @ 220 Kgs 40 MM and Down Size graded granite metal coarse aggregates @ 0.892 cum and Fine aggragetes @ 0.465cum machine mixed, Machine mixed Concerete laid in Layers not Exceeding 15 cms thick well compacted in foundation including cost of all materials labour HOM of machinery , curing complete as per specifications. Specification No 4.1,4.2 1:3:6 Concerete Page NO 12 I.No. 4.2 of KPWdDS.R 2016-2017							
	5 th A main	1	75.00	4.50	0.15	50.63		
		1	50.00	4.00	0.15	30.00		
	Cross Road	1	40.00	5.60	0.15	33.60		
	5 th Cross	1	20.00	5.40	0.15	16.20		
		1	12.00	4.50	0.15	8.10		
	3rd A Cross	1	20.00	4.50	0.15	13.50		
	1 st Cross	1	57.00	4.70	0.15	40.19		
	2 nd Cross	1	36.00	4.50	0.15	24.30		
	4 th Cross	1	100.00	4.50	0.15	67.50		
	5 th Cross	1	76.00	5.00	0.15	57.00		
		1	21.00	5.00	0.15	15.75		

	6 th Cross	1	45.50	4.00	0.15	27.30		
	7 th Cross	1	55.00	4.00	0.15	33.00		
						417.06	5348.76	2230754.00
							Per Cum	
	CSR of 2016-17							
	Basic Rate	5046.00						
	Add A.W. 6%	302.76						
	TOTAL	5348.76						
4	KSRRB M600 22.6.2Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 ReaffirmecF2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. M20 (at 300Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.43cum) Page No 177 I.No. 22.6.2 of KPWD S.R. 2016-2017							
	5 th A main	1	75.00	4.50	0.125	42.19		
		1	50.00	4.00	0.125	25.00		
	Cross Road	1	40.00	5.60	0.125	28.00		
	5 th Cross	1	20.00	5.40	0.125	13.50		
		1	12.00	4.50	0.125	6.75		
	3rd A Cross	1	20.00	4.50	0.125	11.25		
	1 st Cross	1	57.00	4.70	0.125	33.49		
	2 nd Cross	1	36.00	4.50	0.125	20.25		
	4 th Cross	1	100.00	4.50	0.125	56.25		
	5 th Cross	1	76.00	5.00	0.125	47.50		
		1	21.00	5.00	0.125	13.13		
	6 th Cross	1	45.50	4.00	0.125	22.75		
	7 th Cross	1	55.00	4.00	0.125	27.50		
						347.55	5508.82	1914590.00
							Per Cum	
	CSR of 2016-17							
	Basic Rate	5197.00						
	Add A.W. 6%	311.82						
	TOTAL	5508.82						

5	Providing vaccum dewatering concrete as per direction of engineer in charge of the work Page No 177 I.No. 22.7 of KPWD S.R 2016-2017							
	5 th A main	1	75.00	4.50		337.50		
		1	50.00	4.00		200.00		
	Cross Road	1	40.00	5.60		224.00		
	5 th Cross	1	20.00	5.40		108.00		
		1	12.00	4.50		54.00		
	3rd A Cross	1	20.00	4.50		90.00		
	1 st Cross	1	57.00	4.70		267.90		
	2 nd Cross	1	36.00	4.50		162.00		
	4 th Cross	1	100.00	4.50		450.00		
	5 th Cross	1	76.00	5.00		380.00		
		1	21.00	5.00		105.00		
	6 th Cross	1	37.00	4.00		148.00		
	7 th Cross	1	38.00	4.00		152.00		
						2678.40	**95.40**	**255519.00**
							Per Sqm	
	CSR of 2016-17							
	Basic Rate	90.00						
	Add A.W. 6%	5.40						
	TOTAL	**95.40**						
6	Providing groove cutting for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade,coolant etc., including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications. Page No 178 I.No.22.8.1 of KPWD S.R. 2016-2017							
	5 th A Main Rd Vertival Cutting	1	75.00			75.00		
	Hortizonal Cutting	7	4.50			31.50		
		1	50.00			50.00		
		5	4.00			20.00		
		1	40.00			40.00		
		2	5.60			11.20		
		1	20.00			20.00		
		8	5.40			43.20		
		1	12.00			12.00		
		2	4.50			9.00		
		1	20.00			20.00		
		2	4.50			9.00		
		1	76.00			76.00		
	5 th Cross	7	5.00			35.00		
		1	21.00			21.00		

		2	5.00			10.00		
		1	34.00			34.00		
		3	4.00			12.00		
		1	34.00			34.00		
		3	4.00			12.00		
						574.90	121.90	70080.31
							Per Rmt	
	CSR of 2016-17							
	Basic Rate		115.00					
	Add A.W. 6%		6.90					
	TOTAL		121.90					
7	Lead charges for conveying the excavated earth including loading and unloading upto 10kms as per directions (Page No.140 SL.No.5 of KPWD S.R 2016-17)							
	Qty.vide item No.2					1188.42		
						1188.42	106.00	125972.00
							Per Cum	
	for 10 Kms 2.5x 1.28x10=32		32.00					
	Loading & Unloading charges		68.00					
	CSR of 2016-17		100.00					
	Basic Rate		100.00					
	Add A.W. 6%		6.00					
	TOTAL		106.00					
						SubTotal		4946323.31
8	Q.C 1% Charges							50000.00
9	Miscelleneous & other unforseen charges					LS		3676.69
						GRAND TOTAL Rs.		5000000.00

CERTIFICATE

1 The work spot have been inspected by me and work is found to be necessary.
2 This estimate is prepared as per CSR of 2016-17
3 This work is not split up
4 The provisions were made in this estimate are adequete and essential
5 This works comes under BBMP Limits

Asst.Engineer
Ward No.39

Asst.Executive Engineer
P I A Sub Divison
B.B.M.P.

Executive Engineer
Dasarahalli Division
B.B.M.P.